DEPARTMENT OF THE NAVY
NAVAL SUPPORT ACTIVITY WASHINGTON
1411 PARSONS AVENUE ST STE. 303
WASHINGTON NAVY YARD DC 20374-5003

5090
Ser N4/530
November 9, 2016

Ms. Karen Crumlish
Chief, Drinking Water Branch (3WP21)
EPA Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Karen Crumlish:

SUBJECT: REVISED TOTAL COLIFORM REPORT, U.S. NAVAL OBSERVATORY

Enclosed is the Revised Total Coliform Report for the monitoring period October 2016 for the U.S. Naval Observatory.

If you have any questions or require further information, please contact Mr. Dane Bowker, Public Works Department Drinking Water Program Manager at 202-433-4191 or email: dane.bowker@navy.mil.

Sincerely,

Durant S. Graves

DURANT S. GRAVES
Installation Environmental Program Director
By direction of the Commanding Officer

Enclosures: 1. Total Coliform Report
2. Certificate of Analysis

Naval Observatory PWS: DC0000005
October Sampling Report

First Half
Sample Date: 10/5/2016

Total Samples: 1
Total Samples Negative: 1
Total Samples Positive: 0

Sample Number	Sample Point Identifier	Sample Point Name	Collector Name	Compliance Indicator	Sample Collection		Lab Received	Lab Analysis		Sample Comments	Chlorine Residual	pH	Temp (C)	Total Coliform Analysis	E. Coliform Analysis
					Date	Time	Date	Date	Time		Value (mg/L)			Result	Result
16J0388-01	NSF-OBST-59	BLDG 59	Guyan Kularthne	Y	10/5/2016	1243	10/5/2016	10/6/2016	1137		1.29	7.89	22.9	N	N

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Microbac Laboratories, Inc.

Baltimore Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800
Fax: 410-633-6553
www.microbac.com

COVER LETTER

Kosala De Silva
Inspection Experts, Inc
9220 Rumsey Rd., Bay # 5
Columbia, MD 21045

RE: USNO

October 06, 2016
Report No.: 16J0388

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 10/05/2016 14:30.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Certifications/Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

Final report reviewed by:	Curtis B. Read/Project Manager	10/6/2016 Report issue date

All samples received in proper condition and results conform to ISO 17025 and TNI NELAC standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact Curtis B. Read Project Manager at 410-633-1800. You may also contact Trevor Boyce, President at trevor.boyce@microbac.com

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc	Project: USNO	Report: 16J0388
9220 Rumsey Rd., Bay # 5	Project Number: 15-0011-214	Reported: 10/06/2016 13:25
Columbia, MD 21045	Project Manager: Kosala De Silva	

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
NSF-OBSY-59	16J0388-01	Drinking Water	Grab	10/05/2016 12:43	10/05/2016 14:30

Microbac Laboratories, Inc. - Baltimore

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Curtis B. Read, Project Manager

Original Report

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NSF-OBSY-59

16J0388-01 (Drinking Water) Sampled: 10/05/2016 12:43; Type: Grab

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Field Analysis									
Analyst: NA	**pH:** 7.89	**Flow (g/min):** NA		**Res. Cl (mg/L):** 1.29		**GW Elev.(ft):** NA			
Temp. (C): 22.9	**Turb. (ntu):** NA	**D.O. (mg/L):** NA		**Cond. (umhos/cm):** NA		**LEL (%):** NA			
ORP (mV): NA	**Volume (L):** NA	**Flow (g/day):** NA		**Salinity (ppt):** NA		**Ambient Temp. (°C):** NA			

Microbac Laboratories, Inc. - Baltimore

Analyte	Result	Reporting Limit	Units	Limits	Prepared	Analyzed	Analyst	Method	Notes
Microbiology									
Coliform, Total	**Negative**		per 100ml	1.0	100516 1730	100616 1137	QLW	SM 9223B Colilert	
E. Coli	**Negative**		per 100ml	1.0	100516 1730	100616 1137	QLW	SM 9223B Colilert	

Microbac Laboratories, Inc. - Baltimore

Curtis B. Read, Project Manager

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc	Project: USNO	Report: 16J0388
9220 Rumsey Rd., Bay # 5	Project Number: 15-0011-214	Reported: 10/06/2016 13:25
Columbia, MD 21045	Project Manager: Kosala De Silva	

Project Requested Certification(s):

A2LA (Environmental)
State of Maryland (Drinking Water)

Analyte Certification Exception Summary

No certification exceptions

All analysis performed were analyzed under the required certification unless otherwise noted in the above summary.

Certification List

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

Code	Description	Certification Number	Expires
Microbac Laboratories, Inc. - Baltimore			
A2LA1	A2LA (Biology)	410.02	04/30/2017
A2LA2	A2LA (Environmental)	410.01	04/30/2017
VA-B	Commonwealth of Virginia (NELAC) - Baltimore	460285	03/14/2017
CPSC	CPSC Testing of Childrens Products and Jewelry	1115	04/30/2017
Pb	Environmental Lead (ELLAP)	410.01	04/30/2017
MD	State of Maryland (Drinking Water)	109	06/30/2017
WV	West Virginia	054	08/31/2017
Microbac Laboratories, Inc. - Richmond			
VA-R	Commonwealth of Virginia (NELAC) - Richmond	460022	06/14/2017

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CERTIFICATE OF ANALYSIS

Inspection Experts, Inc	Project: USNO	Report: 16J0388
9220 Rumsey Rd., Bay # 5	Project Number: 15-0011-214	Reported: 10/06/2016 13:25
Columbia, MD 21045	Project Manager: Kosala De Silva	

Qualifiers/Notes and Definitions

General Definitions:

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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Cooler Receipt Log

Cooler ID: Default Cooler **Cooler Temp:** 0.40°C **Work Order:** 16J0388

Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:

Instructions for completing the Chain of Custody Record on back.

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Tel: 410-633-1800
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Chain of Custody Record

Customer
Name: Inspection Experts Inc.
Address: 9220 Rumsey Road, Bay #5
Columbia, MD 21045

Project Information
Name: USNO
Number: 15-0011-214
PO:

Turn Around Time
(●) Standard ( ) RUSH*
Needed By:

Compliance
( ) Yes ( ) No
Agency:

Contact
Name: Kosala De Silva
Number: 410-715-3939
Email: kosala@ieinc net

Sampler
Name: Gayan Kularathne
Phone: 240-252-0841
Cert ID**** 0697GK

Report Options
[ ] EDD
[✓] Email kosala@ieinc net
[ ] Fax

QC Pacakge
(●) Level I
( ) Level II**
( ) Level III**
( ) Level IV**

16J0388

Client Sample ID	Matrix****	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis: TC P/A SM9223B			pH	Temp (°C)	Total Chlorine (mg/L)	Comments
NSF-OBSY-59	DW	X			10/05/16	1243	1	X			7.89	22.9	1.29	

10/5/16 1630

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive **Sample Disposition** [X] Dispose as appropriate [ ] Return [ ] Archive

Number of Containers:	Sampled By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Cooler Number: 1		Gayan Kularathne	10/05/16 1430		
Temp upon receipt(°C): -0.4°C	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation
Sample Received on Ice or Refrigerated from Client: (Yes) / No					
Radiation Scan Acceptable (Yes) / No	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation

* Please notify lab prior to drop off. WHITE - ORIGINAL LAB YELLOW - RECEIPT

** Surcharge May Apply to add'l QC Packages *** Sampler certification ID needed for some agencies.

**** Matrix Types. Air(A), Childrens Product(CP), Food(F), Paint(P), Soil/Solid (S), Oil(O), Wipe(WI), Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Instructions for completing the Chain of Custody Record

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division
Control # 606-03
Effective Date: 07/11/2016
Page 1 of 1

Number of Coolers Received: 1
Client: Inspection Experts
Form Completed By: [illegible]
Shipper:
Custody Tape Intact:
Containers Intact:
Sample Received on Ice or refrigerated:

Receipt Date / Time: 10/05/16 1430
Work Order # 16J0386/0388

☐ Microbac ☒ Client ☐ UPS ☐ FedEx
YES / NO / NA
YES / NO
YES / NO / NA
Infrared (IR) Temperature: 0.4 °C
Negative or _____ mR/hr

Radiation Scan:
Chain of Custody Present with shipment:
Sample Bottle IDs agree with COC:
Preservation requirements met:
Correct Number of Containers / Sample Volume:
Headspace in container:
Type of Sample:

YES / NO
YES / NO
YES / NO / Not Checked
YES / NO (If No, contact client immediately)
YES / NO / NA
Water Soil Wipes Oil Filter Solid Sludge Food Swab Other

Container Type / Quantity:

A - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid: If preserved pH <2___, pH >10___
B - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
C - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
D - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
E - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
H - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
K - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
L - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
M- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
P - ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
W- ___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
V - ___ Unpreserved ___ HCl ___ HCl / Ascorbic Acid ___ HCl / NaTHIO **(Checked at time of Analysis)**
F - ___ Unpreserved ___ NaTHIO **(Checked at time of Analysis)**
S - ___ Unpreserved 9 NaTHIO **(Checked at time of Analysis)**
SN- ___ Unpreserved ___NaTHIO ___NaTHIO/EDTA **(Checked at time of Analysis)**

___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___
___ Unpreserved ___ H2SO4 ___ HNO3 ___ HCl ___ NaOH ___ NaOH/Ascorbic Acid If preserved pH <2___, pH >10___

Describe preservation requirements not met:

All Acid preserved <2 pH *NaOH preserved >12 pH* *All others >2 and <10 (usually 4-8)*

Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID:_____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies:_____

Contact information / Summary of Actions:

Date / Time:_____ Contact:_____ Contact By:_____
Comments:_____